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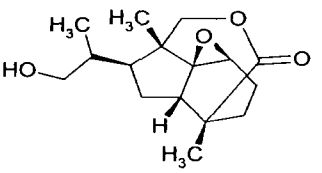
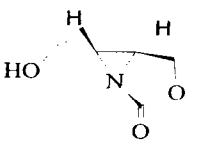
Ensley Group Page

The research interests of my group are primarily in the area of synthetic organic chemistry and the synthesis of biologically active natural products. These interests are interconnected, since the synthesis of complex natural products frequently demands that new synthetic procedures be explored and developed. One projects include the preparations of naturally occurring oligio sacharides as well as various environmental studies.





Selected Publications

"The Physiological Consequences of Ethylene Glycol-Induced Changes in the Front Structure of *Lemna gibba*", JT Barber, DA Thomas, LY Yatsu, HE Ensley, **Aquatic Toxic**., 45, 253-264 (1999).

"Identification of Phosphate Substitution Groups by NMR in a Water-Soluble Phosphorylated (1-3)-β-D-Glucan", DL.Williams, HE Ensley and DW Lowman , **Carbohyd. Res**. 306, 559-562 (1998).

"The Application of Various Protic Acids in the Extraction of (1- 3)-β-D-glucan from Saccharomyces cerevesiae" A. Mueller, HE Ensley, H. Pretus, R. McNamee, E. Jones, E. McLaughlin, W. Chandley, W. Browder, D. Lowman and DL Williams, **Carboyhd. Res**. 299, 203-208 (1997).

"Intermediates for the Convenient Synthesis of Bicyclic Aziridinocarbamates" JT Mague, HE Ensley and J. Ling, **Acta Cryst**. C53, 1347-1350 (1997).

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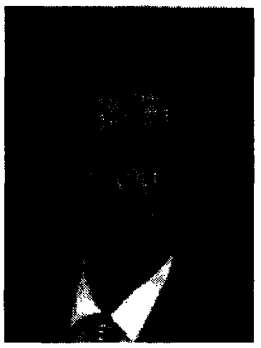

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Areas of Interest
Professor Kinman's teaching interests include water chemistry, water treatment, solid and hazardous waste treatment, and environmental effects of natural degradation processes on air (VOC's) and leachate chemistry. Recent funded research involved the utilization of lime and fly ash for prevention of methane and VOC production and migration. Dr. Kinman won the Cincinnati Kidney Foundation award in 1985 for his research on disinfection of water used in hemodialysis.

Representative Published Works:
Rickabaugh, J. and Kinman, R.N., "Trace Volatile Emissions from Sanitary Landfills," Journal of Environmental Engineering, ASCE, 119, 4, 645, (July-August 1994).
Pourmoghaddas, H., Stevens, A.A., Kinman, R.N., Dressman, R.C., Moore, L.A., and Ireland, J.C., "Effect of Bromide Ion on Formation of HAAs During Chlorination," J. American Water Works Association, 85, 1, 82-87 (1993).
Kinman, R.N. and Nutini, D., "Household Hazardous Waste in the Sanitary Landfill," Chemical Times and Trends, 11, 3, 23 (July 1988).

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